

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of	) Attorney Docket No.: <b>ASAIN0175</b>
Shugo USAMI et al.	)
Serial No.: 10/595,047	) Confirmation No. 1796
Filed: January 17, 2006	)
For: METHOD AND PROGRAM FOR	) Group Art Unit: Unassigned
GENERATING VOLUME DATA	)
FROM BOUNDARY	) Examiner: Unassigned
REPRESENTATION DATA	)
	) Date: December 8, 2006

**INFORMATION DISCLOSURE STATEMENT**

**MAIL STOP: Amendment**

United States Patent and Trademark Office  
Customer Service Window  
Randolph Building  
401 Dulany Street  
Alexandria, VA 22314

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. §1.56, this Information Disclosure Statement in connection with the above-identified application is being filed in accordance with 37 C.F.R. §1.97(b):

- ☐ within three months of the filing date of this application (not a C.P.A.);
- ☐ within three months of the date of entry of the National Stage;
- ☒ before the mailing date of a first Office Action on the merits; or
- ☐ before the mailing of a first Office Action on the merits of, after the filing of a Request for Continued Examination (RCE) under §1.114.

A copy of each non-U.S. document identified on the attached Form PTO/SB/08A is attached,

however, in accordance with Official Gazette Notice dated August 5, 2003, copies of the U.S. patents and patent application publications are not attached.

Applicants bring to the Examiner's attention co-pending and issued U.S. Patent Application Serial Nos. 10/058,905 filed January 30, 2002 (now US 7,088,363), 10/486,659 filed August 17, 2004 (now US 7,110,852), 10/486,653 filed August 24, 2004, 10/486,654 filed September 16, 2004, 11/419,847 filed May 23, 2006, 10/482,919 filed January 6, 2004, 10/496,829 filed January 5, 2005, and 10/505,224 filed August 20, 2004. These U.S. patent applications relate to Kitta Cube technology, which is discussed in the specification of the above-captioned patent application. No further comment regarding these co-pending and issued U.S. Patent Applications is believed to be necessary.

US Patent Document 1 relates to a high-speed image generation of complex solid objects using octree encoding. Document 2 relates to a method of forming a carved sign using an axially rotating carving tool. Document 3 method and apparatus for generating a topologically consistent visual representation of a three dimensional surface. Document 4 relates to a time and space efficient data structure and method and apparatus for using the same for surface rendering. Document 5 relates to an apparatus and process for freeform fabrication of composite reinforcement performs. Document 6 relates to a layer-additive method and apparatus for freeform fabrication of 3-D objects. Document 7 method for creating computer-aided design (CAD) solid models from numerically controlled (NC) machine instructions. Document 8 relates to three dimensional object fabrication techniques. Document 9 relates to a data generating device, data generating method and data generating program. Document 10 relates to a storage method of substantial data integrating shape and physical properties. Document 11 relates to a die machining method and device by V-CAD data.

US Patent Publication Document 1 relates to a reconstructor for and method of generating a three-dimensional representation and image display apparatus comprising the reconstructor. Document 2 relates to a die machining method and device by V-CAD data. Document 3 relates to a rapid prototyping method and device using V-CAD data.

Foreign Patent Document 1 relates to an electrodeless electrolytic dressing grinding method and apparatus. Document 2 relates to a storage method of substantial data integrating shape and physical properties. Document 3 relates to a shape transforming method and device. Document 4 relates to solid imaging system. Document 5 relates to a tool selecting method for dialogue type numerical control device. Document 6 relates to a formation of polishing program and forming device therewith. Document 7 relates to a three-dimensional equivalent surface generating method. Document 8 relates to a shape restoring device. Document 9 relates to an element generation system for numerical analysis. Document 10 relates to an octal tree generating method. Document 11 relates to a shape transforming method. Document 12 relates to a method and device for generating analysis model, and storage medium stored with analysis model generating program or analysis model data. Document 13 relates to a method and device for preparing analysis model and storage medium storing program for analysis model data preparation or analysis model data. Document 14 relates to a shape simulation method, apparatus and storage medium. Document 15 relates to a method for generating in-phase face from nonuniform volume model. Document 16 relates to a video stream distribution method, distribution system and recording medium recording program of the method. Document 17 relates to a stereoscopic image forming apparatus. Document 18 relates to a method for converting 3-dimensional shape data into cell inner data and conversion program. Document 19 relates to a method and

program for converting boundary data into in-cell shape.

Non-Patent Literature Document 1 relates to a haptic interaction method for volume visualization. Document 2 relates to object representation by means of nonminimal division quadtrees and octrees. Document 3 relates to a geometric modeler by using spatial-partitioning representations. Document 4 relates to volume CAD. Document 5 relates to tessellating trimmed NURBS surfaces. Document 6 relates to the computation of a geometric model of a machined part from its NC machining programs. Document 7 relates to an overview of C programming. Document 8 relates to computer-integrating manufacturing of surfaces using octree encoding. Document 9 relates to octree representation and its applications in CAD.


The relevance of these documents is believed to be clear from their subject matter. Accordingly, no further comment regarding the disclosures of these documents is believed to be required.

It is respectfully requested that the attached documents be considered and officially cited, and that the Examiner initial a copy of Form PTO/SB/08A, and return it to the undersigned to indicate that the documents have been considered.

It is believed that the present Information Disclosure Statement complies with the requirements of 37 C.F.R. §§ 1.97-8, but should the filing of this paper necessitate a fee, the Director is hereby authorized to charge the necessary fee to Deposit Account No. 50-1281.

Respectfully submitted,

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